

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
Utiled States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 450
Alexandra, Virgina 22313-1450
www.usptg.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/741,680	12/15/2000	Vipin Samar	OR00-14001	6541	
51067 75	90 04/17/2006		EXAM	INER	
ORACLE INTERNATIONAL CORPORATION c/o A. RICHARD PARK			NGUYEN, CAM LINH T		
2820 FIFTH STREET		· · · ·	ART UNIT	PAPER NUMBER	
DAVIS, CA 9	5616-2914	•	2161		

DATE MAILED: 04/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/741,680	SAMAR, VIPIN					
Office Action Summary	Examiner	Art Unit					
•	CamLinh Nguyen	2161					
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 Cl after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period to the second status of the second status of the second s	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	27 January 2006.						
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.						
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•						
4) ☐ Claim(s) 49-66 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 49-66 is/are rejected. 7) ☐ Claim(s) 62-66 is/are objected to. 8) ☐ Claim(s) are subject to restriction as	ndrawn from consideration.						
Application Papers							
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the continuous The oath or declaration is objected to by the	accepted or b) objected to othe drawing(s) be held in abeyan orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	Application No received in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152)					

Art Unit: 2161

DETAILED ACTION

Response to Amendment

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/27/2006 has been entered.

2. Applicant's amendments to claims 1-48 are acknowledged. Consequently, claims 1-48 are canceled. Claims 49-66 have been added and currently pending.

Claim Objections

3. Claims 62 – 66 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Applicant claims an apparatus in claim 61, and there are no such claims 17 - 20 in the current version of claims. However, applicant claims in claims 62 - 66 that they are depended on claims 17 - 20, and 17 respectively. The Examiner assumes that claims 62 - 66 are depended on claim 61 - 64, 61 respectively. A correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Art Unit: 2161

5. Claims 49 – 60 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

6. In the present case, although claims 49 - 60 recite an abstract idea of a method for managing a database system, however, the language of the claims raise a question as to whether the claim is directed merely to an abstract idea which would result in a practical application **producing a concrete, useful, and tangible result** to form the basis of statutory subject matter under 35 U.S.C. 101. The claim invention would not provide any "tangible result" in the situation of "if the user is a sensitive user, and if the command is received from a normal administrator, disallowing the administrative function". In another words, since the claimed invention, as a whole, is not produce a concrete, useful, and tangible result as explained above, these claims only constitute an idea and does not apply, involve, use, or advance the technological arts, thus, it is deems to be directed to non-statutory subject matter.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 49 50, 54 56, 60 62, 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over D. Richard Kuhn (U.S. 6,023,765) in view of Sweet et al (U.S. 2002/0031230 A1).
- ◆ As per claims 49, 55, 61

Art Unit: 2161

Kuhn discloses a method/a computer-readable storage medium (corresponds to MLS system, col. 4, lines 25 - 30) and an apparatus for managing a database system comprising:

- "Receiving a command to perform an administrator function involving a user within the database system" (See Fig. 3, col.7, lines 65 66). Any type of users can make the command in the privileged classes (Fig. 1, element 10). "Involving a user within the database system" corresponds to a object or documents or employ resources (col. 4, lines 53 56).
- "Determining if the user is a sensitive user who is empowered to access sensitive data in the database system". In this case, the Examiner interpret the phrase "the user is a sensitive user who is empowered to access sensitive data in the database system" as a "document or employ resource" that are protected in the system. The object is attached label such as "CONFIDENTIAL, SECRET, TOP SECRET" (col.6, lines 53 − 55). Kuhn teaches that in order to access to the object, it must determine the sensitivity level of the information (Col. 10, lines 10 − 12).
- "If the user is not a sensitive user, and if the command is received from a normal database administrator for the database system, allowing the administrative function to proceed" (See col. 7, lines 18 24, 65 col. 8, lines 4). Kuhn teaches that the system would only allow the use access to the object when the security levels equal or less than his/her own clearance level using the mapping. Therefore, if the document is not sensitive (not a sensitive user) such as having labeled "confidence", and the user is having a "confidence" level (normal administrator), then the systems will "allowing the administrative function to proceed".

Application/Control Number: 09/741,680

- "If the user is a sensitive user, and if the command is received from a normal administrator, disallowing the administrative function" (See col. 7, lines 18 24, 65 col. 8, lines 4). As discussed above, Kuhn teaches that the system would only allow the use access to the object when the security levels equal or less than his/her own clearance level using the mapping. Therefore, if the document is sensitive (a sensitive user) such as having labeled "top secret", and the user is having a "confidence" level (normal administrator), then the systems will "disable the administrative function to proceed".
- "If the user is a sensitive user, and if the command is received from a security officer who is empowered to perform administrative functions for sensitive users, allowing the administrative function to proceed". Again, by applying the same test above, the system would allow the security officer to perform the administrative function since the security officer is the highest level in the database system.
- "A command receiving mechanism configured to receive a command" corresponds to the external system 24 (See Fig. 2, element 24).

Kuhn does not clearly teach that the database system has a plurality of administrators, and at least one of the pluralities of administrators is a security officer who can perform administrative functions on sensitive objects.

However, Sweet, on the other hand, discloses a security system that comprises:

- "Plurality of administrators" page 7, paragraph 0090.
- "The sensitive object" See page 6, paragraph 0081.
- "Wherein at least one of the plurality of administrators is a security officer who can perform administrative functions on sensitive objects" See page 7, paragraph 0090.

Art Unit: 2161

- "Wherein an administrator in the plurality of administrators who is not a security officer cannot become a sensitive user and thereby obtain access to sensitive objects indirectly" See page 7, paragraph 0091. Wherein, "an administrator in the plurality of administrators who is not a security officer" can be a normal administrator in domain 125, who is responsible for the configuration and management only.
- "If the object is not a sensitive object, and if the command is received from an administrator who is not a security officer; allowing the administrative function to proceed" page 7, paragraph 0090 0091, 0152.
- "If the object is a sensitive object, and if the command is received from an administrator who is not a security officer, disallowing the administrative function" page 7, paragraph 0090 0091, 0165.

As discussed above, the Sweet discloses a hierarchical administrative group according to different levels of administrative tasks (see page 3 paragraph 0035 of Sweet), and Kuhn teaches that depending on user privileges, the system will allow the user to access to the object (See col. 7, lines 18 – 24, 65 – col. 8, lines 4 of Kuhn).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the teaching of Sweet into the system of Kuhn because both invention were available and the teaching of Sweet provides secure electronic access to the system; the combination would protect the database more secure by using different administrator levels so that an administrator in the plurality of administrators who is not a security officer (using administrator group in Sweet) cannot perform administrative functions on sensitive object (using Kuhn invention).

Art Unit: 2161

◆ As per claims 50, 56, 62, Kuhn and Sweet disclose:

- "A request to perform an operation" corresponds to "a command to perform an administrative function" See Fig. 3, col.7, lines 65 66 of Kuhn.
- "If the data item is a sensitive data item containing sensitive information and if the request is received from a sensitive user who is empowered to access sensitive data, allowing the operation to proceed if the sensitive user has access rights to the sensitive data item" The Examiner in this case will interpret the "data item" as "document" in Kuhn reference. Again, by applying the same test above, the system would allow the sensitive user who is empowered to access sensitive data to perform the administrative function since the sensitive user is the highest level in the database system (See col. 7, lines 18 24, 65 col. 8, lines 4 of Kuhn).
- "If the data item is a sensitive data item and the request is received from a user who is not a sensitive user, disallowing the operation" (See col. 7, lines 18 24, 65 col. 8, lines 4). As discussed above, Kuhn teaches that the system would only allow the use access to the object when the security levels equal or less than his/her own clearance level using the mapping. Therefore, if the document is sensitive (a sensitive data) such as having labeled "top secret", and the user is having a "confidence" level (not a sensitive user), then the systems will "disable the administrative function to proceed".
- ◆ As per claims 54, 60, 66, Kuhn and Sweet disclose:
 - "Wherein if the user is not a sensitive user, and if the command to perform the administrative function is received from a security officer, the method further comprises

Art Unit: 2161

allowing the security officer to perform the administrative function on the user" See col. 7, lines 18-24, 65-col. 8, lines 4 of Kuhn.

- 9. Claims 51 53, 57 59, 63 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over D. Richard Kuhn (U.S. 6,023,765) in view of Sweet et al (U.S. 2002/0031230 A1) as applied to claims 49 50 above, and further in view of Minear et al (U.S. 5,983,350).
- ♦ As per claim 51 53, 57 59, 63 66, Kuhn and Sweet disclose:

The combination of Kuhn and Sweet fail to disclose:

"Wherein if the data item is a sensitive data item, if the operation is allowed to proceed, and if the operation involves retrieval of the data item, the method further comprises decrypting the data item using an encryption key after the data item is retrieved".

However, this is a well-known technique in the art to protect the data when transferring in the network. Minear provided an example of it. Minear teaches a method for securely transferring information in the network (col. 1, lines 8 - 11, Minear) comprising the decrypting/encrypting data (col. 2, lines 52 - 64, Minear). Minear also teaches that the encryption key is stored in a table (col. 7, lines 29 - 35, Minear).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the teaching of Minear into the combination of Kuhn/Sweet because the combination would protect the data more secure and prevent the unauthorized user to access the data.

Response to Arguments

Application/Control Number: 09/741,680

Art Unit: 2161

10. Applicant's arguments with respect to claims 49 - 66 have been considered but are moot

Page 9

in view of the new ground(s) of rejection.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to CamLinh Nguyen whose telephone number is (571) 272-4024.

The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, GAFFIN JEFFREY A can be reached on (571) 272-4146. The fax phone number for

the organization where this application or proceeding is assigned is 571 - 273 - 8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nguyen, Cam Linh

Myryer Conche.

Art Unit 2161

LN